

Product datasheet for **RC235200**

DGKH (NM_001204504) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGKH (NM_001204504) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DGKH
Synonyms:	DGKeta
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC235200 representing NM_001204504 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGGGGCCGAGGCCAGCACACCCTCCGGGCGCCGCTGGAGGAGCGGCCCGGAGCCGGCGCCG
CGGTCACCTCCGCCGCTGCCTCGGCGGGCCGGGAGAGGATTCGCTGACAGCGAAGCGGAGCAAGAGGG
ACCCAGAACTGATCCGCAAAGTGTCTACCTCGGGCAGATCCGGACCAAGACCAGTATTAAGAGGGG
CAGCTATTGAAGCAAACAGTCTTTCCAAAGGTGAAAAAGCGATACTTCAAACCTCGAGGCCGACCC
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CGCTATGTGAAACTGTAAAGGACTTCGTTGCCAAAGTAGAAAAGACGTATGACAAAACCTTGAAAAATGC
CGTTGTAGCTGATGCCGTGGCCAGTAAATGTTTCAGTCCTAAACGAGAAGCTCGAACAACTGCTGCAGGCT
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ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235200 representing NM_001204504
 Red=Cloning site Green=Tags(s)

MAGAGGQHHPGAAGGAAAGAGA AVT SAAASAGPGE DSSDSEAEQEGPQKLIRKVSTSGQIRTKTSIKEG
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 ENRKEMEDWISSLKSVQTR EPEVAQFNVEHFSGMHNWYACSHARPTFCNVCRESLSGVTSHGLSCEVCK
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 SVATHLTKILNSDEHAVVISSAKTL CETVKDFVAKVEKTYDKTLEN AVVADAVASKCSVLNEKLEQLLQA
 LHTDSQAAPVLPGLSPLIVEEDAVESSEESLGE SKEQLGDDVTKPSSQKAVKPREIMLRANSLKKA VRQ
 VIEEAGKVMDPTVHPCEPANQSSDYDSTETDESKEEAKDDGAKESITVK TAPRSPDARASYGHSQTDSV
 PGPAVAASKENLPVLNTRIICPGLRAGLAASIAGSSIINKMLLANIDPFGATPFIDPDLDSVDGYSEKCV
 MNNYFGIGLDAKISLEFNNKREEHPEKCRSRTKNLMWYGV LGTRELLQRSYKNLEQRVQLECDGQYIPLP
 SLQGI AVLNIPSYAGGTNFWGGTKEDDIFAAPS FDDKILEVVAIFDSMQMAVSRVTKLQHHR IAQCRTVK
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 AIDLATEEVSQMLCSQAAEELITRICDAATIHCLLEQELAHAVNACSHALNKANPRCPESLTRDTATEI
 AINVKALYNETESLLVGRVPLQLESPHEERVSNALHSVEVELQKLTEIPWLYYLHPNEDEEPPMDCTR
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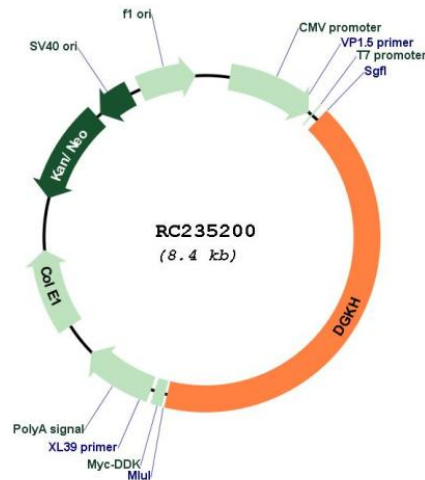
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001204504

ORF Size: 3492 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001204504.2](#)

RefSeq Size: 4204 bp

RefSeq ORF: 3495 bp

Locus ID: 160851

UniProt ID: [Q86XP1](#)

Cytogenetics: 13q14.11

Protein Families:	Druggable Genome
Protein Pathways:	Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system
MW:	128.5 kDa
Gene Summary:	This gene encodes a member of the diacylglycerol kinase (DGK) enzyme family. Members of this family are involved in regulating intracellular concentrations of diacylglycerol and phosphatidic acid. Variation in this gene has been associated with bipolar disorder. Alternatively spliced transcript variants have been identified. [provided by RefSeq, Jul 2014]